



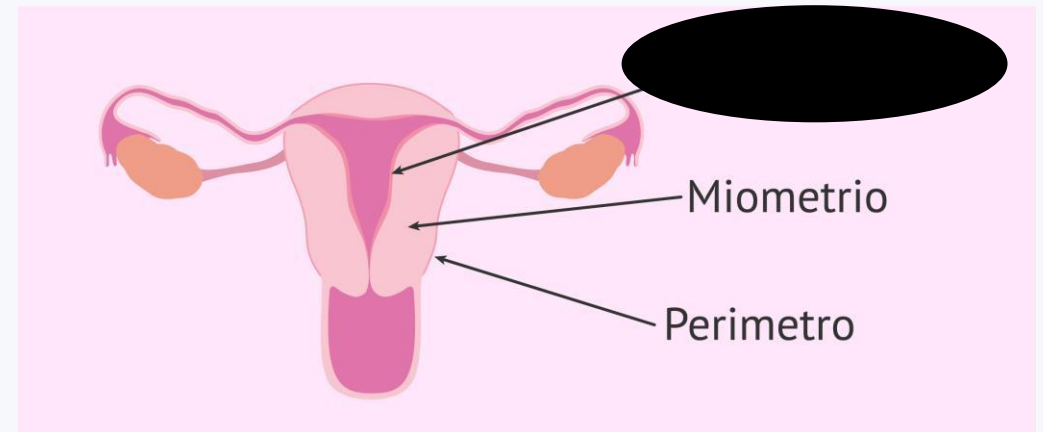
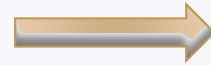
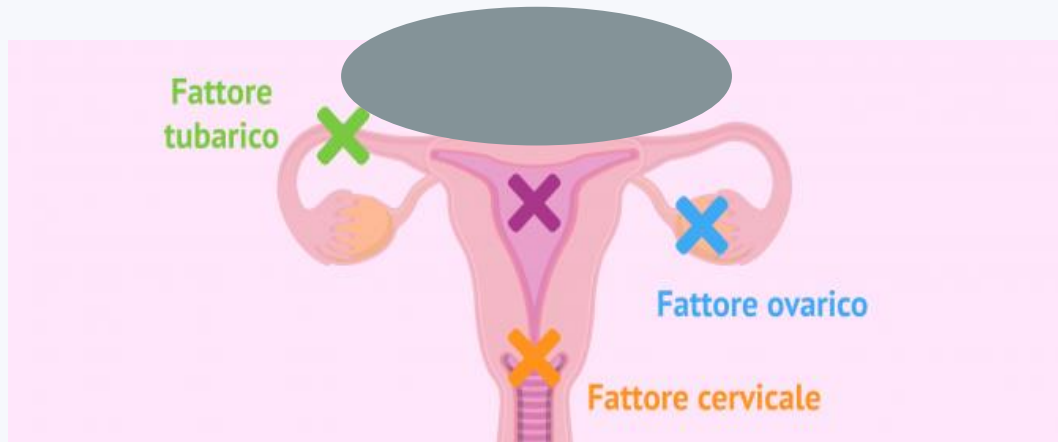
Università Politecnica delle Marche
Dipartimento Scienze della vita e dell'ambiente

Corso di Laurea
Scienze biologiche

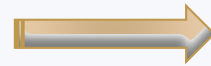
Tesi di laurea Conti Priscilla
Docente referente Prof.ssa Oliana Carnevali

**Materiali derivanti
dall'utero per la
ricostruzione, il
recupero e la
funzionalità
dell'organo: nuove
speranze per la
procreazione**

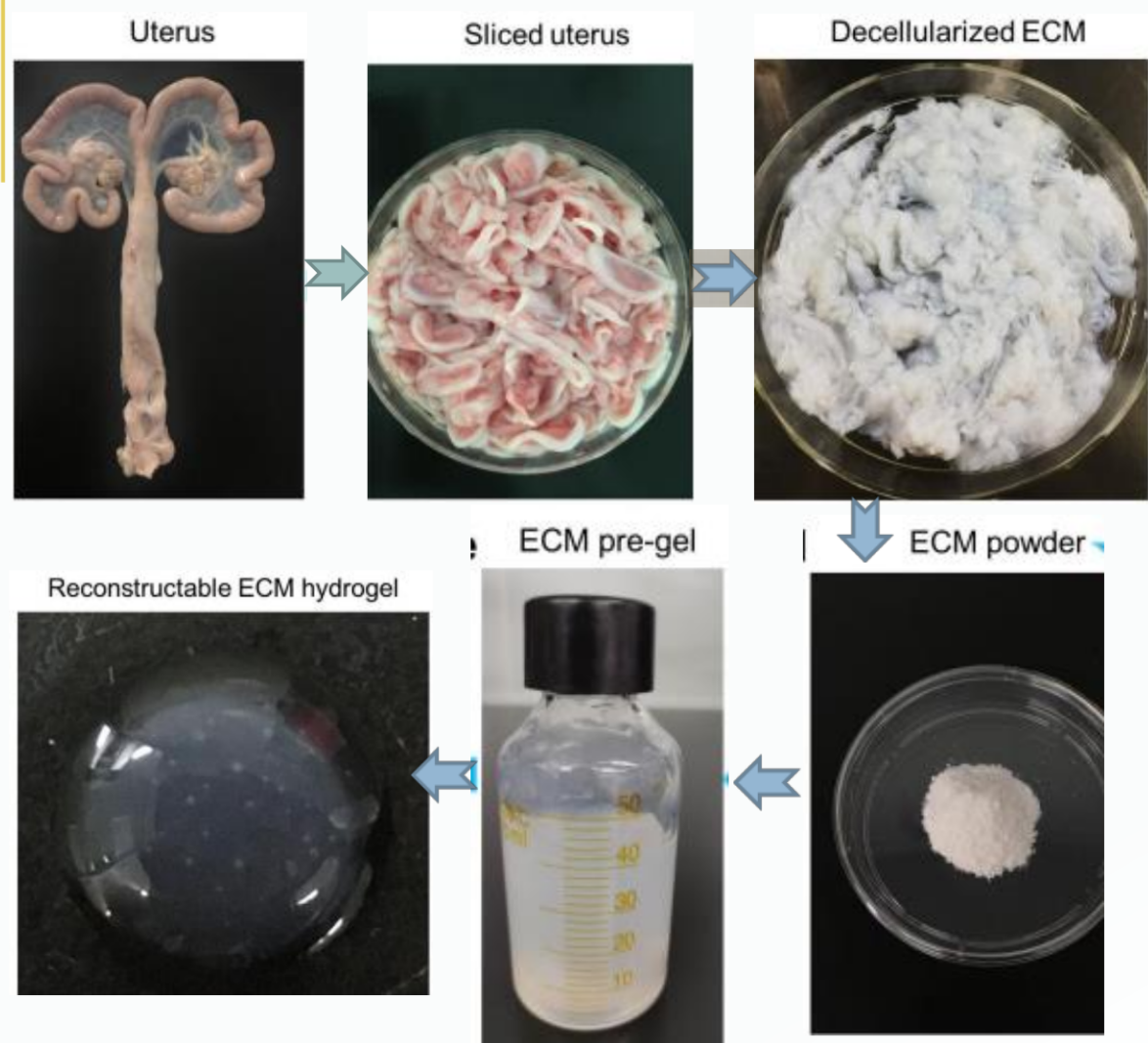
L'INFERTILITA' FEMMINILE



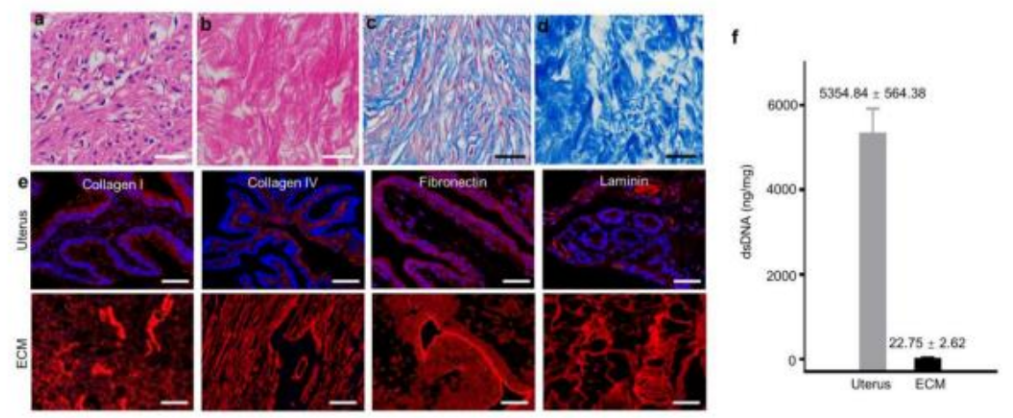
LESIONI
ENDOMETRIALI



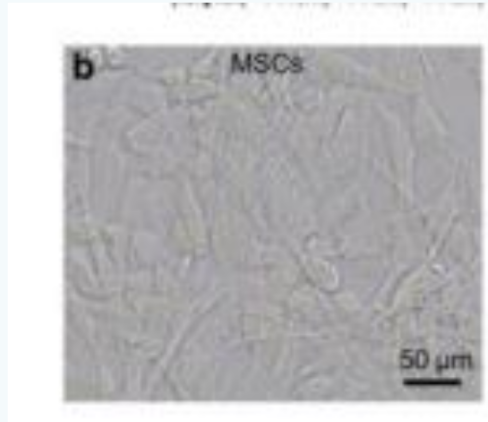
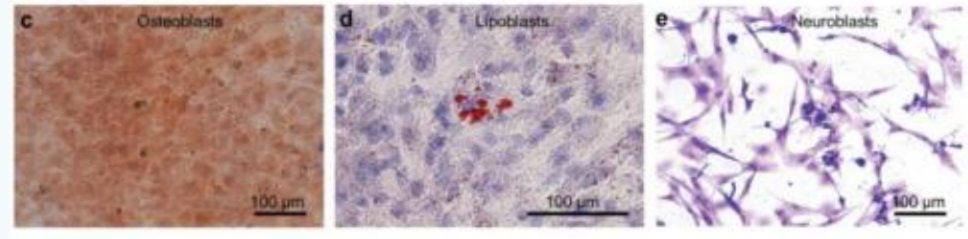
ADERENZE
INTRAUTERINE



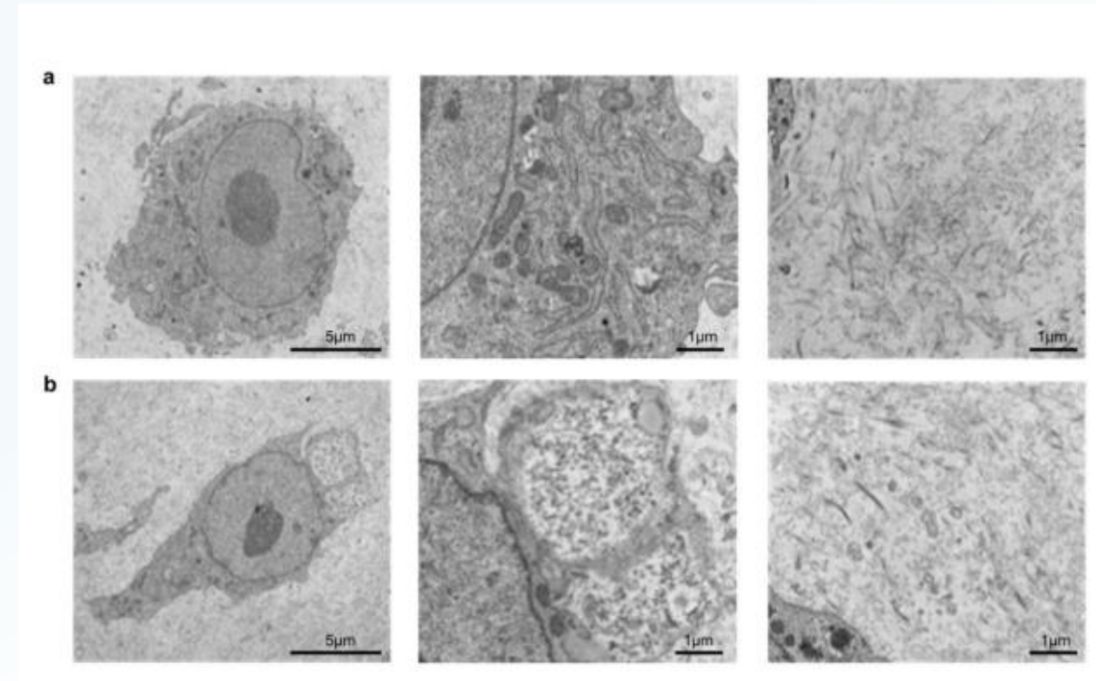
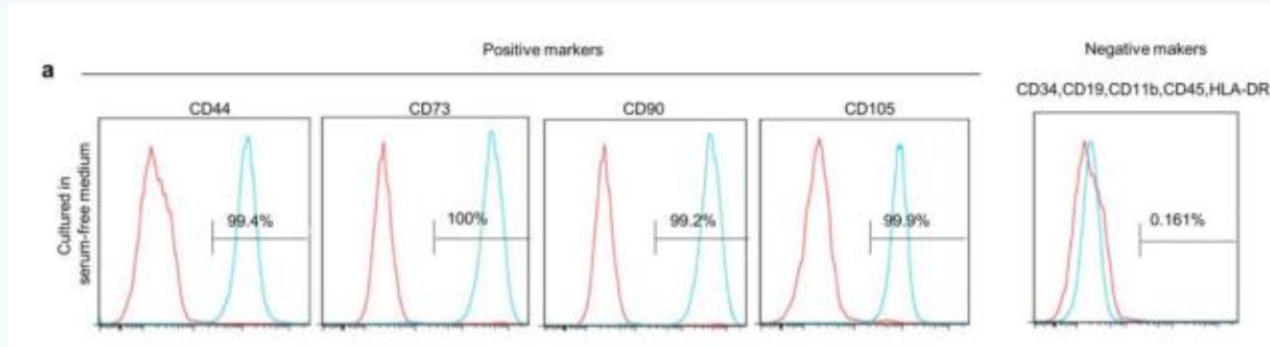
MATRICE EXTRACELLULARE (ECM)



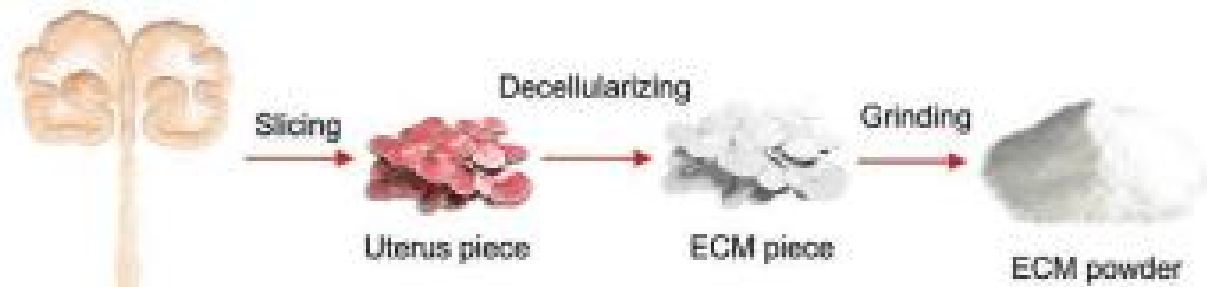
CELLULE STAMINALI VILLI CORIALI



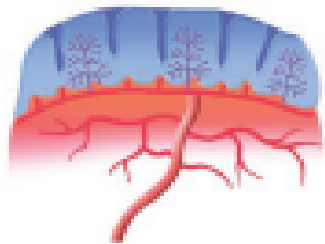
MSC IN MATRICE EXTRACELLULARE (RUMs)



MATERIALI RICOSTRUIBILI DERIVANTI DALL'UTERO (RUM)



1. Materiali matrice extracellulare

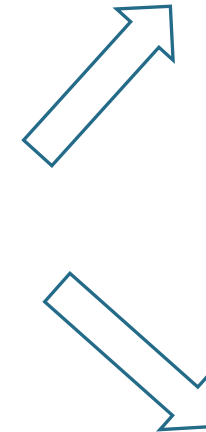
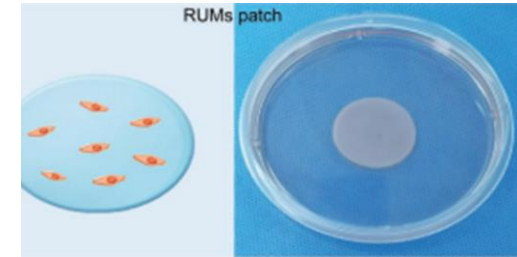
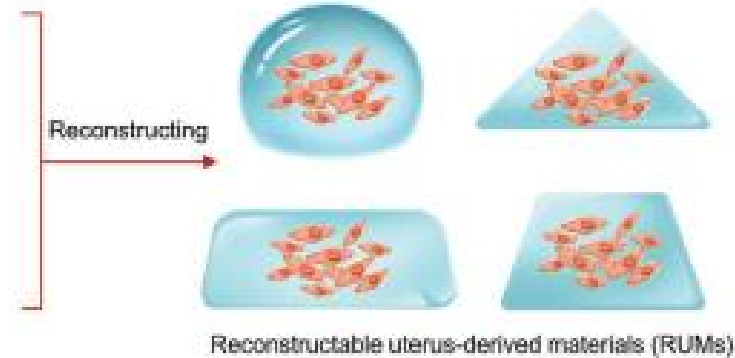


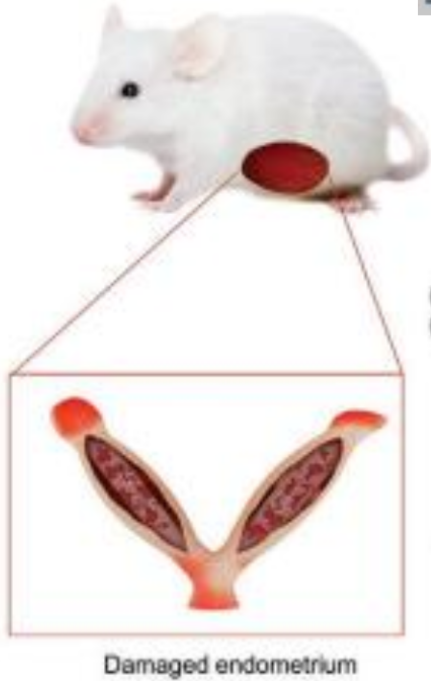
Placenta chorionic villi

2. Cellule staminali mesenchimali dei villi coriali



MSCs





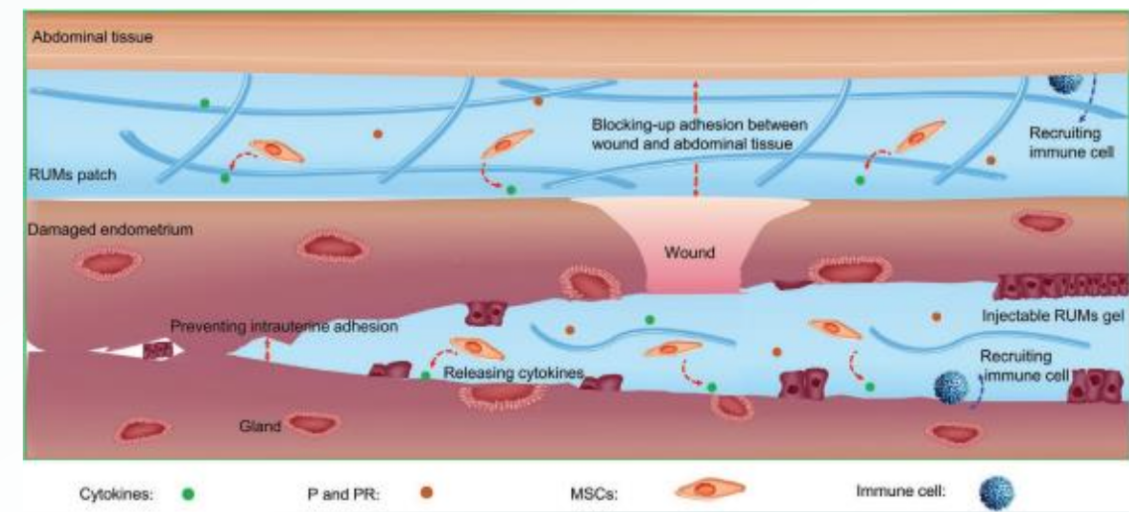
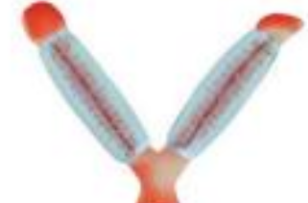
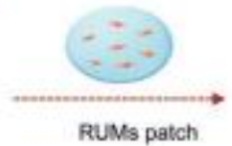
Uterus recovery →



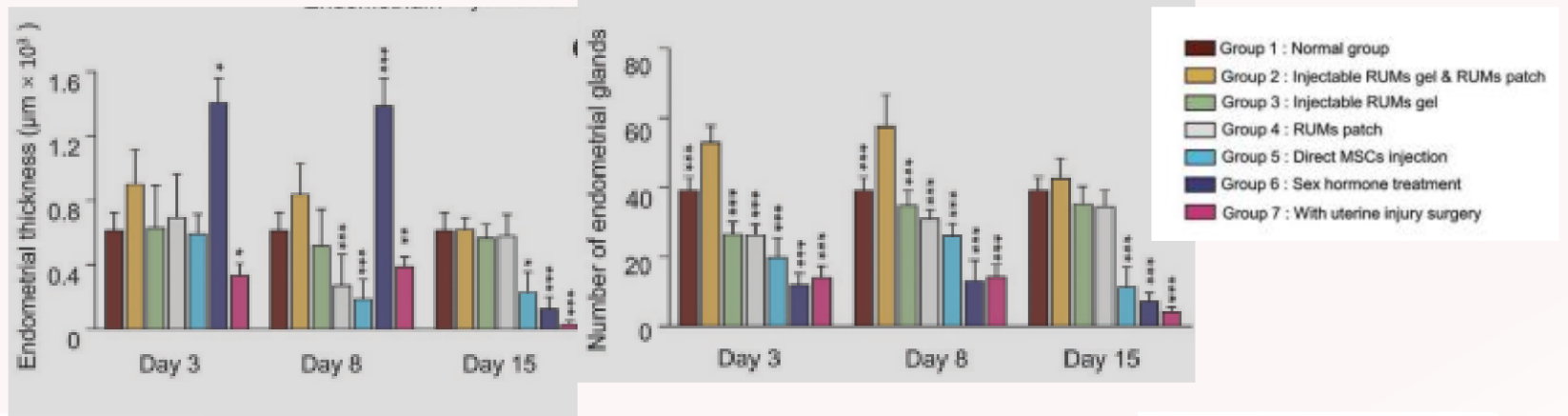
APPLICAZIONE DEI RUM A RATTI CON DANNO UTERINO

- (i) Preventing intrauterine adhesion
- (ii) Promoting endometrial regeneration

- (iii) Promoting wound healing
- (iv) Preventing adhesion between wound and abdominal tissue



RUM PER IL TRATTAMENTO DEI RATTI CON GRAVE DANNO UTERINO



Group 1
Normal group

Group 2
Injectable RUMs gel &
RUMs patch

Group 3
Injectable RUMs gel

Group 4
RUMs patch

Group 5
Direct MSCs injection

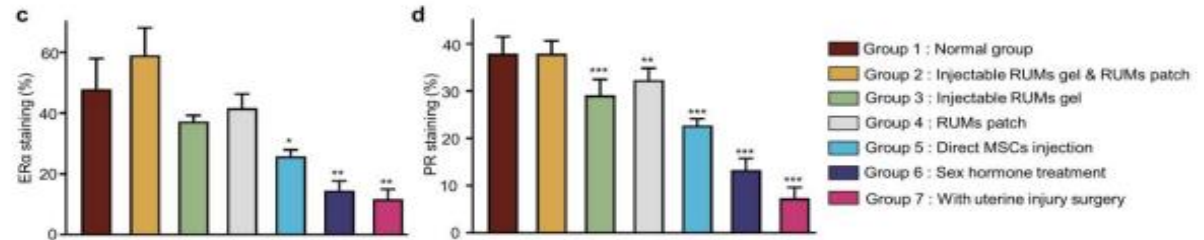
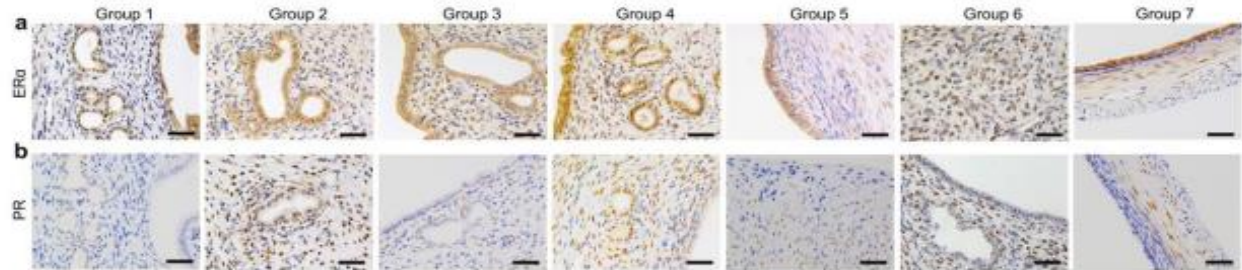
Group 6
Sex hormone

Group 7
With uterine injury surgery

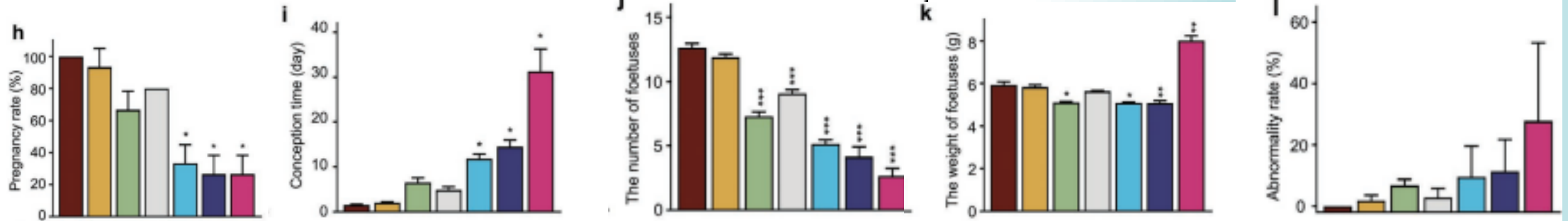


VALUTAZIONE FERTILITÀ

Group 1 Normal group Group 2 Injectable RUMs gel & RUMs patch Group 3 Injectable RUMs gel Group 4 RUMs patch Group 5 Direct MSCs injection Group 6 Sex hormone treatment Group 7 With uterine injury surgery

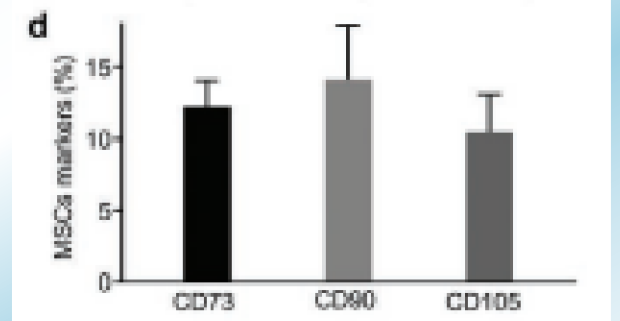
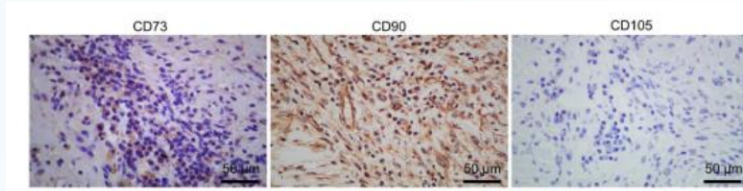
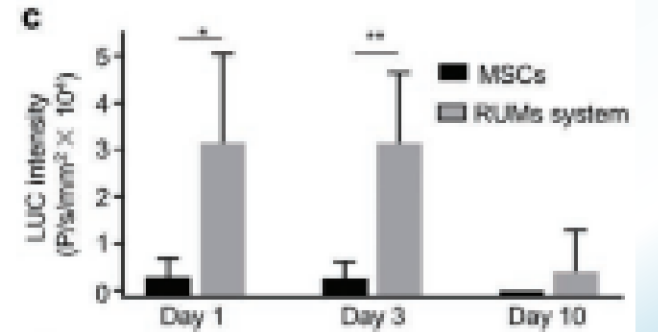
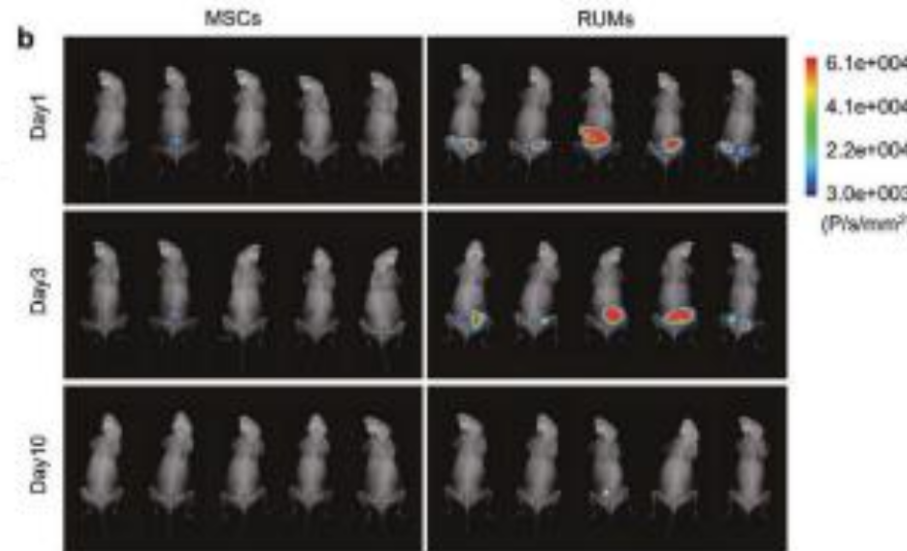
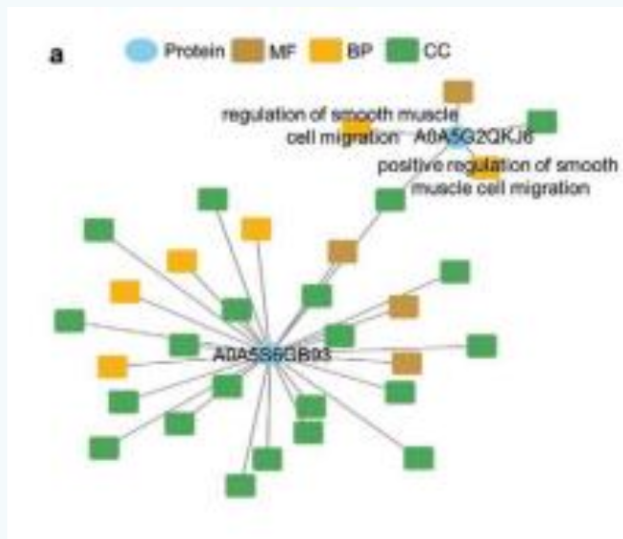
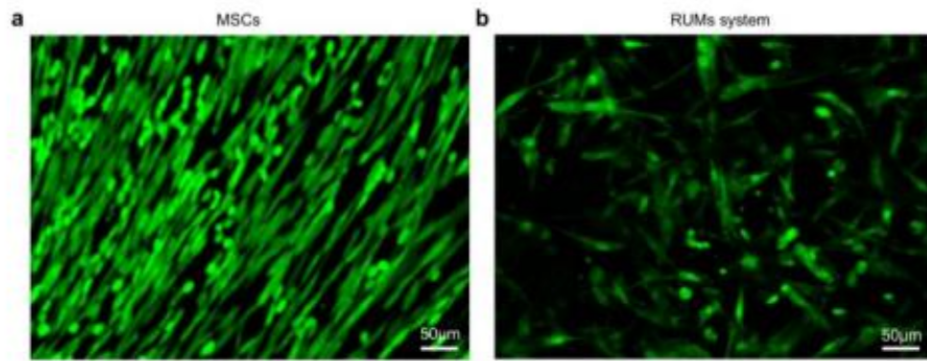


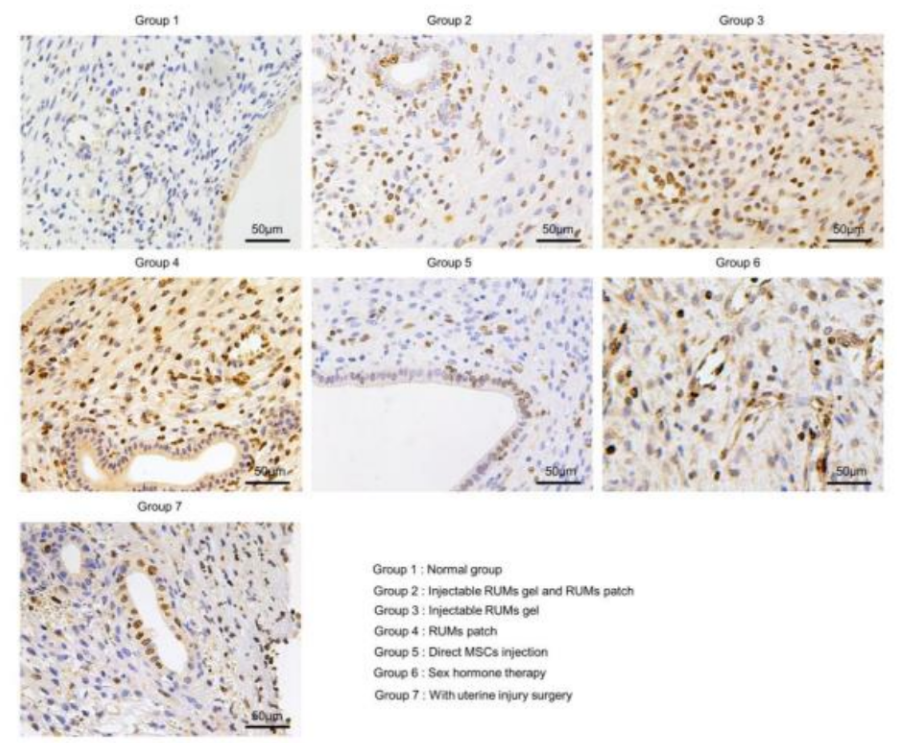
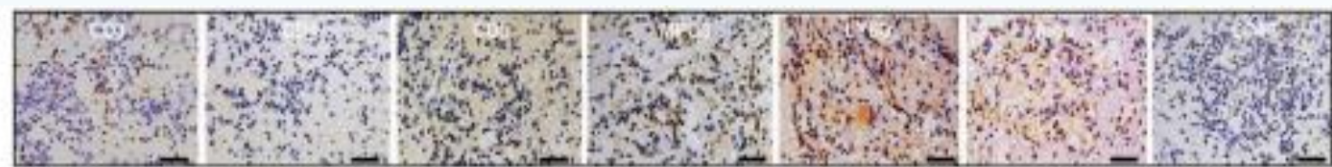
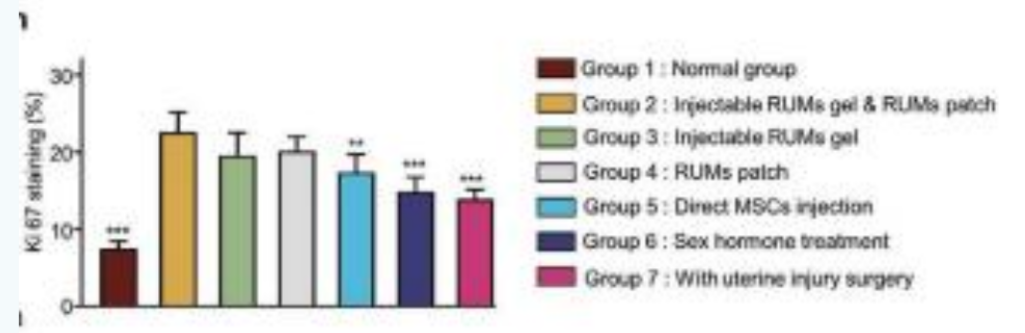
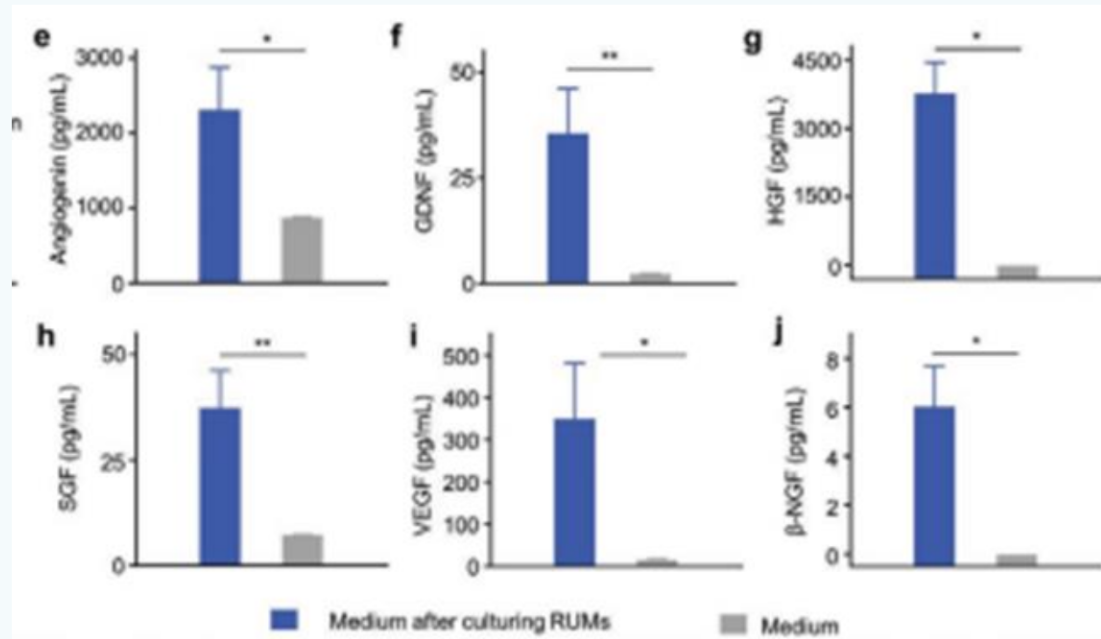
Tasso di gravidanza, tempo di concepimento, numero di feti, peso dei feti e tasso di anomalità dei sette gruppi.



Group 1 : Normal group
 Group 2 : Injectable RUMs gel & RUMs patch
 Group 3 : Injectable RUMs gel
 Group 4 : RUMs patch
 Group 5 : Direct MSCs injection
 Group 6 : Sex hormone treatment
 Group 7 : With uterine injury surgery

RECUPERO DELL'UTERO

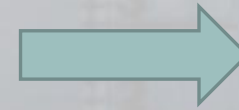




CONCLUSIONI

OBIETTIVI

- Recupero della funzionalità dell'utero
- Speranze per la procreazione



Benessere psicologico

Reconstructable Uterus-Derived Materials for Uterus
Recovery toward Efficient Live Births
Xiao Yi, Fan Liu, Kunjie Gao, Feng Chen, Yifeng Wang, Huayan Li, Xuefeng Wang,
Yi Huang, Huijiao Fu, Weijie Zhou, Jun-Bing Fan,* Shutao Wang,* and Yi Gao*
<http://www.advmate.de/>